

## NEW COMBINATIONS IN ECUADOREAN SENECIONEAE

Bertil Nordenstam  
Department of Phanerogamic Botany  
Swedish Museum of Natural History  
P.O. Box 50007, S-104 05 Stockholm, Sweden  
fbo-bertil@nrm.se

### Abstract

Fifteen new combinations of Ecuadorean taxa in the genera *Dendrophorbium*, *Monticalia*, and *Talamancalia* are published.

### Introduction

Ongoing studies on Ecuadorean Senecioneae for the 'Catalogue of Vascular Plants of Ecuador' and the 'Flora of Ecuador' necessitate a number of new combinations, some of which are published here. Others will follow in due course, as well as descriptions of some new taxa.

### New combinations

#### *Dendrophorbium amplexicaule* (Kunth) B. Nord., comb. nov.

Basionym: *Senecio amplexicaulis* Kunth in H.B.K., Nov. Gen. Sp. Pl. 4: 181 (folio ed.), 142 (quarto ed.) (1820, text available in 1818). - Syn.: *Pentacalia amplexicaulis* (Kunth) Cuatrec., Phytologia 49: 252 (1981). - Orig. coll.: Humboldt & Bonpland s.n., Ecuador, "prope Alausi et Tambo de Guamote Quitensium, alt. 1300-1500 hex." (P holotype).

#### *Dendrophorbium angelense* (Domke) B. Nord., comb. nov.

Basionym: *Senecio angelensis* Domke in Diels, Biblioth. Bot. 116: 171 (1937). - Orig. coll.: Diels 785, Ecuador, Carchi: Above El Angel, upper forest limit, ca. 3200 m, 2.IX.1933 (B holotype †).

***Dendrophorbium balsapampae* (Cuatrec.) B. Nord., comb. nov.**

Basionym: *Senecio balsapampae* Cuatrec., Fieldiana 27: 18 (1950). - Orig. coll.: A. Rimbach 240, Ecuador, W cordillera above Balsapampa, 2600 m, X.1934 (F holotype!).

***Dendrophorbium dodsonii* (H. Robinson & Cuatrec.) B. Nord., comb. nov.**

Basionym: *Pentacalia dodsonii* H. Robinson & Cuatrec., Novon 3: 285 (1993). - Orig. coll.: Dodson & Thien 676, Ecuador, Zamora: Road from Loja to Zamora, 2800 m, 18.IX.1961 (SEL holotype).

***Dendrophorbium gesnerifolium* (Cuatrec.) B. Nord., comb. nov.**

Basionym: *Senecio gesnerifolius* Cuatrec., Fieldiana Bot. 27: 33 (1950). - Orig. coll.: J. A. Steyermark 54743, Ecuador, Santiago-Zamora: Trail between Achupallas and Nudo de Sabanillas, 3000-3500 m, 17.X.1943 (F holotype!).

***Dendrophorbium ingens* (Benoist) B. Nord., comb. nov.**

Basionym: *Senecio ingens* Benoist, Bull. Soc. Bot. Fr. 83: 808 (1936). - Orig. coll.: Benoist 4467, Ecuador: "Chemin de Aloag à Santo Domingo de los Colorados, au km 18", 4.VII.1931 (P holotype).

***Dendrophorbium onae* (Cuatrec.) C. Jeffrey var. *leonis* (Cuatrec.) B. Nord., comb. nov.**

Basionym: *Senecio onae* Cuatrec. var. *leonis* Cuatrec.; Fieldiana Bot. 27: 33 (1950). - Orig. coll.: J. A. Steyermark 53697, Ecuador, Azuay: Dry rocky slopes bordering Río León towards Ona, on N side of Río León, 1970 m, 3.VIII.1943 (F holotype).

***Dendrophorbium solisii* (Cuatrec.) B. Nord., comb. nov.**

Basionym: *Senecio solisii* Cuatrec., Fedde Repert. 55: 146 (1953). - Orig. coll.: M. Acosta Solís 10504, Ecuador, Carchi: Between Paja Blanca and El Cucho, 2900-3200 m, 18.VII.1945 (F holotype!, F isotype!)

***Dendrophorbium tipocochense* (Domke) B. Nord., comb. nov.**

Basionym: *Senecio tipocochensis* Domke in Diels, Biblioth. Bot. 116: 173 (1937). - Orig. coll.: Diels 594, Ecuador, Chimborazo: Oberer Bergwald, 3200 m, 17.VIII.1933 (B holotype †).

***Dendrophorbium toreadoris* (Cuatrec.) B. Nord., comb. nov.**

Basionym: *Senecio toreadoris* Cuatrec., Fieldiana Bot. 27: 34 (1950). - Orig. coll.: J. A. Steyermark 53021, Ecuador, Azuay: Between Molleturo and Toreador, 2590-3900 m, 14.VI.1943 (F holotype!).

***Monticalia andicola* (Turcz.) C. Jeffrey var. *pseudonitida* (Cuatrec.) B. Nord., comb. nov.**

Basionym: *Senecio andicola* Turcz. var. *pseudonitidus* Cuatrec., Brittonia 12: 194 (1960). - Orig. coll.: Mille 725, Ecuador: Declivibus Antisana, 3600 m, I. 1917 (GH holotype).

***Monticalia befarioides* (Cuatrec.) B. Nord., comb. nov.**

Basionym: *Senecio befarioides* Cuatrec., Fedde Repert. 55: 134 (1953). - Syn.: *Pentacalia befarioides* (Cuatrec.) Cuatrec., Phytologia 49: 253 (1981). - Orig. coll.: A. S. Hitchcock 21940, Ecuador, Chimborazo: Between Urbina and Mt. Chimborazo, 3600-4500 m, 4.X.1923, (US holotype).

***Monticalia microdon* (Wedd.) B. Nord., comb. nov.**

Basionym: *Senecio microdon* Wedd., Chlor. And. 1: 102 (1856). - Syn.: *Pentacalia microdon* (Wedd.) Cuatrec., Phytologia 49: 256 (1981). - Orig. coll.: Jameson 118, Ecuador: "Sur le mont Cotopaxi", 1845 (P type).

***Monticalia teretifolia* (Kunth) B. Nord., comb. nov.**

Basionym: *Cacalia teretifolia* Kunth in H.B.K., Nov. Gen. Sp. Pl. 4: 124 (folio ed.), 159 (quarto ed.) (1820, text available in 1818). - Syn.: *Senecio teretifolius* (Kunth) DC., Prodr. 6: 420 (1837); *Microchaete teretifolia* (Kunth) Benth., Pl. Hartw. 209 (1845); *Pentacalia teretifolia* (Kunth) Cuatrec., Phytologia 49: 259 (1981). - Orig. coll.: Humboldt & Bonpland s.n., Ecuador: "In arenosis juxta pagum Mulalo Quitensium ignivomos Cotopaxi et Ilinissa, alt. 1600 hex." (P holotype).

***Talamancalia fosbergii* (Cuatrec.) B. Nord., comb. nov.**

Basionym: *Senecio fosbergii* Cuatrec., Fedde Repert. 55: 138 (1953). - Orig. coll.: F. R. Fosberg & M. A. Giler 22946, Ecuador, Loja: NE slope of Cerro Mataperro 3 km SW San Pedro, 10 km WNW of Catamayo, 1815 m, 10.II.1945 (US holotype!).

The genus *Talamancalia* was recently reported as a new generic record for South America (Nordenstam & Pruski 1995), by transfer of the Ecuadorean *Senecio putcalensis* Hieron. to this genus. The available material of this species was collected more than a century ago in the Loja area. A related species was discovered in unnamed material on loan from the Aarhus University (AAU). Upon further study it turned out to be identical to *Senecio fosbergii* Cuatrec. This is obviously related to *Talamancalia putcalensis*, but sufficiently distinct to be maintained as a different species. It shares with *T. putcalensis* the pinnatilobate leaf-shape, but the leaves are larger and less dissected, white-tomentose on the lower side (thereby resembling *T. westonii* H. Robinson & Cuatrec. from Costa Rica), and provided with distinctly winged petioles with conspicuously enlarged auricles at the base. The leaves of *T. putcalensis* are only scabrous-hirsute below and the petioles are narrowly winged. All three previously known species of *Talamancalia* are said to possess orange-coloured rays, but *T. fosbergii* has pure yellow ray-florets. This is not a very important difference, however, as can be seen from the variation within the related genus *Dorobaea*, where orange and yellow rays may occur within a species (Nordenstam & Pruski 1995).

*Talamancalia fosbergii* has a restricted range in the Catamayo valley near Loja in southern Ecuador, where it grows on dry slopes at 1800-2000 m altitude. Apart from the type, the following two collections are known to me: Ecuador, Loja: Road Loja-Catamayo, in the Catamayo valley, 79°18'W, 3°57'S, 2000 m, 25.II.1989, Øllgaard et al. 90697 (AAU); Road San Pedro de la Bendita (W of Catamayo)-El Cisne, c. km 8 (N extension of the Catamayo valley), 1900 m, 79°25'W, 3°55'S, 25.II.1989, Øllgaard et al. 90706 (AAU).

### Reference

Nordenstam, B. & J. F. Pruski 1995. Additions to *Dorobaea* and *Talamancalia* (Compositae-Senecioneae). *Comp. Newsl.* 27: 31-42.